

1,4-alpha-glucan-branching enzyme, chloroplastic/amyloplastic (SBE1), Recombinant Protein

Cat *RP11235*

Species

Oryza sativa subsp. *japonica* (Rice)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* 1,4-alpha-glucan-branching enzyme, chloroplastic/amyloplastic (SBE1), partial

Product Gene Name

SBE1 recombinant protein

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

86,635 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

1,4-alpha-glucan branching enzyme

NCBI Accession

XP_015643111.1

NCBI GI

1002277537

NCBI GenBank Nucleotide

XM_015787625.1

NCBI GenID

4342117

NCBI Official Full Name

1,4-alpha-glucan-branching enzyme, chloroplastic/amyloplastic isoform X1

NCBI Official Symbol

LOC4342117

NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

1,4-alpha-glucan-branching enzyme, chloroplastic/amyloplastic (SBE1), Recombinant Protein

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SBE; Rbe1; Sbe1; Q-enzyme

NCBI Protein Information

1,4-alpha-glucan-branching enzyme, chloroplastic/amyloplastic

UniProt Gene Name

SBE1

UniProt Synonym Gene Names

RBE1

UniProt Protein Name

1,4-alpha-glucan-branching enzyme, chloroplastic/amyloplastic

UniProt Synonym Protein Names

Q-enzyme; Starch-branching enzyme

UniProt Primary Accession

Q01401

UniProt Secondary Accession

Q40664; Q5Z7Q1; Q7XZP9

UniProt Related Accession

Q01401

UniProt Comments

Catalyzes the formation of the alpha-1,6-glucosidic linkages in starch by scission of a 1,4-alpha-linked oligosaccharide from growing alpha-1,4-glucan chains and the subsequent attachment of the oligosaccharide to the alpha-1,6 position.

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